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ANNUAL OPERATIONS AND PROGRESS REPORT

DIVISION OF  
OIL, GAS & MINING

From Month/Year January 1, 1986  
to Month/Year January 1, 1987

(To be submitted for each mining operation at the end of each calendar year to the Division at this address:)

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
(801) 538-5340

OPERATOR: Ideal Basic Industries, Inc. MINE NAME: Devil's Slide

ADDRESS: Auxiliary Route #3  
Morgan, Utah 84050

PERMIT NUMBER AND DATE OF PERMIT: ACT/029/001 (Intent to Commence Mining Submitted June 1977, Permit Pending)

REPRESENTATIVE: L. B. Giles, Plant Manager

SECTION(S): 24, 19 TOWNSHIP(S): 4N RANGE(S): 3E, 4E

MINERAL(S) MINED: Limestone

STATE AND/OR FEDERAL MINERAL LEASE NUMBERS: N.A.

SPECIAL USE PERMITS AND/OR RIGHTS-OF-WAY: N.A.

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

<u>Disturbance</u>	<u>Acreage</u>
Pit	30.0
Roads	No change
Facilities	No change
Waste Dumps	12.0
Other	-

(b) Tabulation of acreage affected to date (by years).

<u>Date by Year</u>	<u>Acreage (Total)</u>	
1975		
1976		
1977	264	Original Notice
1978	270	Requested Amendment (1978)
1979		
1980		
1981		
1982		
1983		
1986	396	Requested Amendment (1985)

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

#### SOIL TABULATION CHART

Area Affected (in mining sequence) (If more space is needed, please attach.)	<u>Area</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>etc.</u>
Acreage of Area	148.5			
Depth of Topsoil Removal (inches)	No removable topsoil			
Depth of Topsoil Replacement (inches)*	0			
Estimate of Topsoil Volume Salvaged (yd <sup>3</sup> or ac ft)	0			
Volume Actually Salvaged (yd <sup>3</sup> or ac ft)	0			
Volume Required for Reclamation (yd <sup>3</sup> or ac ft)	0			
Surplus or Deficit Volume (yd <sup>3</sup> or ac ft)	0			
Storage Status (short- or long-term)	N.A.			

Soil Tabulation Chart (continued)

Area Affected (in mining sequence)	Area			
	1	2	3	etc.
Storage Location	N.A.			
Area Where Soil Has Been Used (if not stored)	N.A.			
Running Total (all stockpiles) (yd <sup>3</sup> or ac ft)	N.A.			
Short-term	0			
Long-term	0			

\*Of previously stripped area recently reclaimed.

(d) Tabulation of all (newly removed) out-of-pit spoil volumes, date of placement and illustration on a map.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>
Quarry #3	1986	1 Acre

(e) Tabulation of quantity of commodity mined.

	<u>Commodity</u>	<u>Tonnage</u>
(Mined)	Limestone	495,698 Tons Mined and Milled
(Milled)	Sandstone	4,971 Tons Mined and Milled

(f) Description of any new construction during the report period with illustration on a map, including, but not limited to:

1. Buildings and support facilities.  
None

2. Roads.

Only minor, temporary road building was done in 1986, these roads are constantly changed or destroyed as mining proceeds.

3. Diversion ditches, collector ditches, interceptor ditches, etc.  
None

4. Culverts.  
None

5. Sediment ponds, containment ponds.  
None

6. Monitoring sites (vegetative, air quality, surface subsidence, surface water or ground water, etc.).  
None

7. Topsoil stockpiles.  
None

(g) Description of any environmental problem areas with a proposed plan for mitigation and illustration on a map, including, but not limited to:

1. Pit stability problems.  
N.A.

2. Subsidence.  
N.A.

3. Accidental water discharge, dam failure, etc.  
N.A.

4. Slumping, sliding or erosion.  
N.A.

5. Revegetation problem areas.  
Long range reclamation plan being developed with State Natural Resources Department.  
Nothing has been finalized at this time.

6. Existence and location of unsuitable (toxic) overburden.  
N.A.

RECLAMATION:

(a) Tabulation of the acreage reclaimed during the report period with illustration on a map, distinguishing between:

1. Backfilled, graded and contoured areas.

Area

Acreage

None

2. Topsoiled areas.

Area

Acreage

None

3. Seeded areas.

<u>Area</u>	<u>Acreage</u>
None	

4. Reseeded areas (areas previously seeded, then seeded again).

<u>Area</u>	<u>Acreage</u>
None	

(b) Tabulation of total acreage reclaimed (seeded with permanent seed mix) to date by years with illustration on an updated map:

<u>Year</u>	<u>Acreage</u>
1975	
1976	
1977	
1978	
1979	
1980	
1981	
1982	
1983	
1984	
1986	0

(c) Description of the reclamation procedures used during the report period, including:

1. Average depth of topsoil applied.  
N.A.


2. Type of seed (species) used for seeding during the report period.  
N.A. All disturbed areas still considered active.


3. Date of seeding during the report period.

Spring N.A.  
  
  
Fall

4. Seeding procedures used.

(Hand broadcast or drilled or any other).

N.A.

5. Rate of seed application.

Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)

N.A.

6. Type and rate of fertilizer applied.

N.A.

7. Type and rate of mulch applied.

N.A.

8. Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.).

N.A.

9. Revegetation test plot information.

(Cover, density, productivity, etc.)

One test plot - seeded October 31, 1986 per Morgan County S.C.S. Office recommendations. Future test plots will be planned after sufficient time to evaluate the first one. Details of this test plot will be included in our Reclamation Plan.

10. Soil analysis results.

See #9

(d) Description of results of previous revegetation efforts, including:  
(This should be done as applicable.)

1. Types (species) of seed that have germinated and are growing.

N.A.

2. Types (species) of seed that are not growing successfully.

N.A.

3. Areas experiencing problems with weeds and weed types.

N.A.

4. Significant erosional problems.

N.A.

5. Areas of unsuitable overburden on the surface as related to  
revegetation failure.

N.A.

6. Procedures used or proposed to correct these problems.

N.A.



7. Acreage and dates of release (upon inspection by the State) of revegetated areas.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>
N.A.		

8. Results of soil analysis.  
N.A.


(e) Summarization of the reclamation costs incurred during the report period, including itemized costs for each operation (i.e., grading, topsoil replacement, seeding, etc.) and for each type of disturbance (i.e., spoil, haul roads, facilities removal, etc.) on a per acre basis.

	<u>Acres</u>	<u>Cost/Acre</u>
1. Grading	N.A.	
2. Backfilling		
3. Contouring		
4. Topsoil Replacement		
5. Seeding		
A. Seedbed Preparation		
B. Mulch		
C. Fertilizer		
D. Seed		
6. Other		

BOND INFORMATION:

- A. An updated bond estimate should be included, if required in the Division's approval of the Mining and Reclamation Plan (MRP) or if changes to the MRP have occurred, including a detailed itemization of actual/estimated reclamation costs as outlined in the RECLAMATION section above. The date of the release of revegetated areas from further responsibility for a partial bond release, if applicable, should also be included.

	<u>Amount</u>	<u>Type</u>	<u>Date Posted</u>
Present Bond	N.A.		

Increased disturbance, if any:

1986 disturbance increased by 4 acres.

Increased Bond Amount (attached reclamation estimate).

B. Bond release.

<u>Acres</u>	<u>Bond Amount Released</u>	<u>Date</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).
- (b) Other special conditions (status).

Report Prepared by:

IDEAL BASIC INDUSTRIES, INC.  
Devil's Slide, Utah Plant  
Auxiliary Route #3  
Morgan, Utah 84050  
Telephone 801 829-6821

APPENDIX I

ANNUAL REPORT MAPS

1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.
2. Map sheets should be of a reasonable size, not to exceed 48 inches on a side.
3. Maps must have a title block with:
  - A. Map title.
  - B. Name and address of permittee.
  - C. Permit and amendment numbers.
  - D. Annual report period.
  - E. Scale, north arrow, contour interval, date of photography, etc.
4. All maps must show:
  - A. Legal subdivisions.
  - B. Permit area boundary clearly shown and labelled.
  - C. Amendment areas clearly shown and labelled.
  - D. Contour features.
5. The following features should all be clearly identified:
  - A. Topsoil stockpiles (numbered and with volumes).
  - B. Settling ponds and sediment control structures.
  - C. Haul roads.
  - D. Pits identified by location, name, number, etc.
  - E. Ramps (numbered).
  - F. Out-of-pit spoil dumps.
  - G. All waste disposal sites including, but not limited to:
    1. Landfill sites.
    2. Carbonaceous waste dumps.
  - H. Diversion ditches.
  - I. Monitoring sites.
6. All areas to be affected by mining and reclamation in the coming year should be outlined and labelled.

Ideal Cement - Devil's Slide Plant  
A Division of Ideal Basic Industries

Auxiliary Route No. 3  
Morgan, Utah 84050  
801 829 3421

M 1029/001

February 3, 1987

**IDEAL**

State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

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DIVISION OF  
OIL, GAS & MINING

Attention: Mr. Lowell P. Braxton

Dear Mr. Braxton,

Enclosed are the annual operation reports and current maps of our  
Devil's Slide and Poverty Point operations covering 1986 calendar year.

If you have any questions or need additional information, please feel  
free to call.

Sincerely,

*L. B. Giles*

L. B. Giles  
Plant Manager

LBG/y

Enclosures